

148 MAINTENANCE

NOTE: When installing a new switch, tighten it with 1.3~1.7 kg-m (9.5~12.0 ft-lbs) of torque.

Table 77 Oil Pressure Switch Inspection

Meter	Engine Speed	Oil Pressure Switch
Rx 1	Stopped	ON (Ohmmeter reads zero ohms)
	More than idling rpm	OFF (Ohmmeter reads infinity)

Relief valve wear

Measure the diameter of the valve piston and the inside diameter of the valve body. The difference between these two values is the piston-to-body clearance. If the clearance exceeds the service limit, replace the valve piston. If the piston and the inside wall of the valve body are scratched, replace the relief valve.

Relief Valve Body

Relief Valve Piston

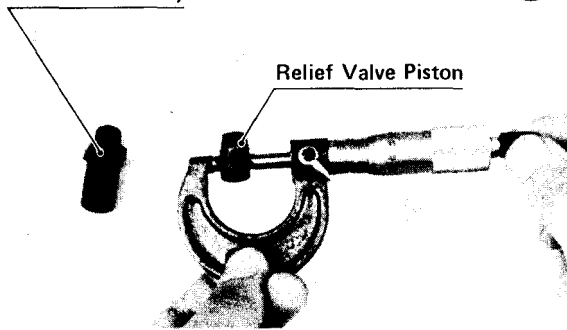
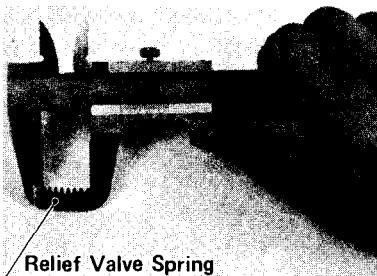


Table 78 Relief Valve Piston/Body Clearance

Standard	Service Limit
0.020" -0.103 mm	0.13 mm

Relief valve spring tension

Measure the valve spring free length with vernier calipers. If the length is less than the service limit, replace the spring.



Place the Gasket.

Table 79 Valve Spring Free Length

Standard	Service Limit
20.1 mm	19.1 mm

Engine Oil Pump

The oil pump, installed in the left side of the lower crankcase half, is a simple trochoid type with an outer and an inner rotor. The gear on the pump is driven in direct proportion to engine rpm by a gear attached to the left end of the rear balancer shaft.

If the oil pump becomes worn, it may no longer be able to supply oil to lubricate the engine adequately.

Outer rotor/inner rotor clearance

Measure the clearance between the outer rotor and inner rotor with a thickness gauge. If the clearance exceeds the service limit, replace the rotors.

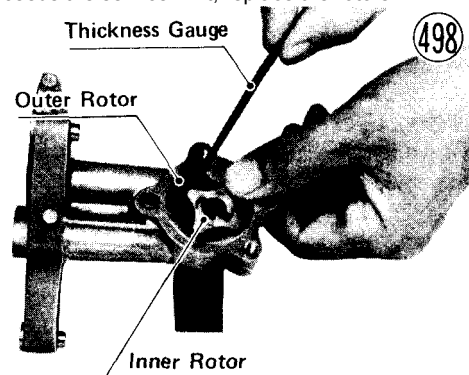


Table 80 Outer Rotor/Inner Rotor Clearance

Standard	Service Limit
0.05" ^0.23 mm	0.30 mm

Rotor side clearance

Lay a straight edge on the oil pump body, and measure the clearance between the straight edge and the rotors with a thickness gauge. If the clearance exceeds the service limit, replace either the pump body or the rotors depending on which is excessively worn.

